

Product datasheet for **RC209360**

NAT2 (NM_000015) Human Tagged ORF Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	NAT2 (NM_000015) Human Tagged ORF Clone
Tag:	Myc-DDK
Symbol:	NAT2
Synonyms:	AAC2; NAT-2; PNAT
Mammalian Cell Selection:	Neomycin
Vector:	pCMV6-Entry (PS100001)
E. coli Selection:	Kanamycin (25 ug/mL)
ORF Nucleotide Sequence:	>RC209360 ORF sequence Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
GCC**CGATCGCC**

ATGGACATTGAAGCATATTTTGAAGAATTGGCTATAAGAACTCTAGGAACAAATTGGACTTGGAAACAT
TAACTGACATTCTTGAGCACCAGATCCGGGCTGTTCCCTTTGAGAACCTTAACATGCATTGTGGCAAGC
CATGGAGTTGGGCTTAGAGGCTATTTTGTACACATTGAAGAAGAAACCGGGTGGTGGTGTCTCCAG
GTCAATCAACTTCTGACTGGGCTCTGACCACAATCGGTTTTAGACCACAATGTTAGGAGGGTATTTTT
ATATCCCTCCAGTTAACAAATACAGCACTGGCATGGTTCACCTTCTCCTGCAGGTGACCATTGACGGCAG
GAATTACATTGTCGATGCTGGGTCTGGAAGCTCCTCCCAGATGTGGCAGCCTCTAGAATTAATTTCTGGG
AAGGATCAGCCTCAGGTGCCTTGCAATTTCTGCTTGACAGAAGAGAGGAATCTGGTACCTGGACCAAA
TCAGGAGAGAGCAGTATATTACAAACAAAGAATTTCTTAATTCTCATCTCCTGCCAAAGAAGAAACCA
AAAAATACTTATTTACGCTTGAACCTCAAACAATTGAAGATTTTGGTCTATGAATACATACCTGCAG
ACGTCTCCAACATCTTCATTTATAACCACATCATTTTGTTCCTTGACAGACCCAGAGGGGTTTACTGTT
TGGTGGGCTTCATCCTCACCTATAGAAAATCAATTATAAAGACAATACAGATCTGGTTCGAGTTAAAC
TCTCACTGAGGAAGAGGTTGAAGAAGTCTGAAAAATATATTTAAGATTTCTTTGGGAGAAATCTCGT
CCCAAACCTGGTGGATGGATCCCTACTATT

ACGCGTACGCGGCCGCTCGAGCAGAAACTCATCTCAGAAGAGGATCTGGCAGCAAATGATATCCTGGATT
ACAAGGATGACGACGATAAGGTTTAA



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Reconstitution Method:

1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: [NM_000015.3](#)

RefSeq Size: 1317 bp

RefSeq ORF: 873 bp

Locus ID: 10

UniProt ID: [P11245](#)

Cytogenetics: 8p22

Domains: Acetyltransf2

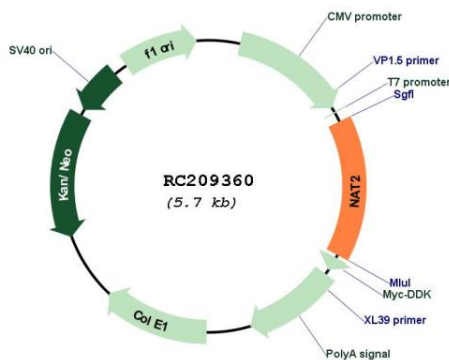
Protein Families: Transmembrane

Protein Pathways: Caffeine metabolism, Drug metabolism - other enzymes, Metabolic pathways

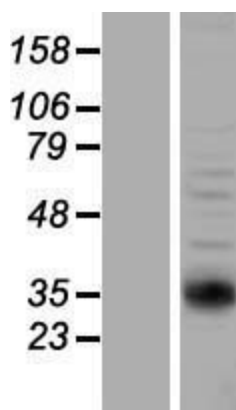
MW: 33.5 kDa

Gene Summary: This gene encodes an enzyme that functions to both activate and deactivate arylamine and hydrazine drugs and carcinogens. Polymorphisms in this gene are responsible for the N-acetylation polymorphism in which human populations segregate into rapid, intermediate, and slow acetylator phenotypes. Polymorphisms in this gene are also associated with higher incidences of cancer and drug toxicity. A second polymorphic arylamine N-acetyltransferase gene (NAT1), is located near this gene (NAT2). [provided by RefSeq, Sep 2019]

Product images:



Circular map for RC209360



Western blot validation of overexpression lysate (Cat# [LY424976]) using anti-DDK antibody (Cat# [TA50011-100]). Left: Cell lysates from untransfected HEK293T cells; Right: Cell lysates from HEK293T cells transfected with RC209360 using transfection reagent MegaTran 2.0 (Cat# [TT210002]).